2012 CDC SEXUALLY TRANSMITTED DISEASES (STD) TREATMENT SUMMARY GUIDELINES STD CONTROL PROGRAM - RHODE ISLAND DEPARTMENT OF HEALTH

These treatment of STDs reflect recommendations of the CDC www.cdc.gov/std/treatment/2010. The focus is on STDs encountered in outpatient settings and is not an exhaustive list of effective treatments. Please refer to the complete document for more information, or call the STD Program, or see http://health.ri.gov/diseases/sexuallytransmitted/for/providers/. Sexual partner services (identification, notification, risk counseling and referral) for gonorrhea, syphilis and HIV/AIDS will be provided by public health personnel when a case is reported. Contact information for Partner Services and to Report cases: (401) 222-2577. FAX (401) 222-1105. STD Program, Rhode Island Department of Health, Room 106, 3 Capitol Hill, Providence, RI 02908.

DISEASE	RECOMMENDED TREATMENT		ALTERNATIVES		
SYPHILIS			(use only if recommended regimens are contraindicated)		
ADULTS PRIMARY, SECONDARY OR EARLY LATENT (<1 YEAR)	Benzathine penicillin G 2.4 million units IM once		(For penicillin-allergic non-pregnant patients only) Doxycycline 100 mg orally 2 times a day for 14 days <u>OR</u> Tetracycline 500 mg orally 4 times a day for 14 days		
ADULTS LATE LATENT (>1 YEAR) OR LATENT OF UNKNOWN For all Suspect Syphilis Cases: Call DURATION	Benzathine penicillin G 2.4 million units IM for 3 doses at 1 week intervals (total 7.2 million units)		(For penicillin-allergic non-pregnant patients only) Doxycycline 100 mg orally 2 times a day for 28 days OR Tetracycline 500 mg orally 4 times a day for 28 days		
the STD Registry at (401) 222-2577 for past titers and treatment	Aqueous crystalline penicillin G 18 - 24 million units per day, administered as 3-4 million units IV every 4 hours or continuous infusion, for 10-14 days		Procaine penicillin 2.4 million units IM once daily PLUS probenecid 500 mg orally 4 times a day, both for 10-14 days		
CHILDREN PRIMARY, SECONDARY OR EARLY LATENT (<1 YEAR)	Benzathine penicillin G 50,000 units/kg IM once, up to adult dose of 2.4 million units		No specific alternative regimens exist.		
CHILDREN LATE LATENT (>1 YEAR) OR LATENT OF UNKNOWN DURATION	 Benzathine penicillin G 50,000 units/kg IM (up to adult dose of 2.4 million units) for 3 doses at 1 week intervals (up to total adult dose of 7.2 million units) 				
CONGENITAL SYPHILIS	See complete CDC guidelines.				
HIV INFECTION PREGNANCY	Same stage-specific recommendations as for HIV-r Penicillin is the <u>only</u> recommended treatment for sy and treated with penicillin. Treatment is the same a	philis during	pregnancy. Women who are allergic should be desensitized		
GONOCOCCAL INFECTIONS	and readed with periodish. Treatment is the same a	3 III Holl picg	mant patients for each stage of syphilis.		
ADULTS, ADOLESCENTS AND CHILDREN ≥45 KG UROGENITAL, PHARYNGEAL, RECTAL	Ceftriaxone 250 mg IM once PLUS Azithromycin 1 g orally once (preferred) OR Doxycycline 100 mg orally 2 times a day for 7 days		Note: Use of any alternative regimens for gonorrhea should be followed by a test-of-cure ⁴ in one week. For urogenital or rectal infections ONLY, and ONLY if ceftriaxone is not available: Cefixime 400mg orally once		
Partner Management: Empiric treatment of all sexual contacts during the 60 days preceding symptom onset or, if asymptomatic, date of diagnosis.			PLUS ² ◆ Azithromycin 1 g orally once (preferred) <u>OR</u> ◆ Doxycycline ³ 100 mg orally 2 times a day for 7 days For severe cephalosporin allergy: ◆ Azithromycin 2 g orally in a single dose		
ADULTS AND ADOLESCENTS CONJUNCTIVAL	Ceftriaxone 1 g IM once plus lavage the infected eye with saline solution once		No specific alternative regimens exist.		
CHILDREN <45 KG	Ceftriaxone 125 mg IM once				
NEONATES OPHTHALMIA NEONATORUM	Ceftriaxone 25-50 mg/kg IV or IM once (maximum 125 mg)				
INFANTS BORN TO INFECTED MOTHERS CHLAMYDIAL INFECTIONS					
ADULTS AND CHILDREN AGED >8 YEARS	Azithromycin 1 g orally once <u>OR</u>	Ervthrom	nycin base 500 mg orally 4 times a day for 7 days ⁵ <u>OR</u>		
Partner Management: Empiric treatment of all sexual contacts during the 60 days preceding symptom onset or, if asymptomatic, date of diagnosis.	Doxycycline ³ 100 mg orally 2 times a day for 7 days	 Erythromycin ethylsuccinate 800 mg orally 4 times a day for 7 days⁵ O Levofloxacin⁶ 500 mg orally once a day for 7 days OR Ofloxacin⁶ 300 mg orally 2 times a day for 7 days 			
CHILDREN <45 KG AND NEONATES	Erythromycin base or ethylsuccinate 50 mg/kg/day orally divided into four doses daily for 14 days ⁷		ific alternative regimens exist.		
PREGNANCY	Azithromycin 1 g orally once <u>OR</u> Amoxicillin 500 mg orally 3 times a day for 7 days	orally 4 ti • Erythrom	thromycin base 500 mg orally 4 times a day for 7 days (or 250 mg lly 4 times a day for 14 days) <u>OR</u> thromycin ethylsuccinate 800 mg orally 4 times a day for 7 days (or 1 mg orally 4 times a day for 14 days)		
NONGONOCOCCAL URETHRITIS		T			
ADULT MALES	 Azithromycin 1 g orally once⁸ <u>OR</u> Doxycycline³ 100 mg orally 2 times a day for 7 days 	Erythrom Levofloxa	ythromycin base 500 mg orally 4 times a day for 7 days ⁵ <u>OR</u> ythromycin ethylsuccinate 800 mg orally 4 times a day for 7 days ⁵ <u>OF</u> vofloxacin ⁶ 500 mg orally once a day for 7 days <u>OR</u> loxacin ⁶ 300 mg orally 2 times a day for 7 days		
EPIDIDYMITIS ⁹					
ADULT MALES	Ceftriaxone 250 mg IM once PLUS Doxycycline 100 mg orally 2 times a day for 10 day	ays	Levofloxacin ⁶ 500 mg orally once a day for 10 days <u>OR</u> Ofloxacin ⁶ 300 mg orally twice daily for 10 days		
PELVIC INFLAMMATORY DISEASE (outpatien					
ADULT FEMALES	Ceftriaxone 250 mg IM once <u>OR</u> Cefoxitin 2 g IM once <u>plus</u> probenecid 1 g orally Other third generation cephalosporin <u>PLUS</u> Doxycycline ³ 100 mg orally 2 times a day for 14 c <u>WITH OR WITHOUT</u> Metronidazole ¹⁰ 500 mg orally twice a day for 14	days	See complete CDC guidelines for alternatives.		
PREGNANCY			riate recommended parenteral IV therapy (see complete		

¹ Tetracycline/doxycycline contraindicated; erythromycin not recommended because it does not reliably cure an infected fetus; data insufficient to recommend azithromycin or ceftriaxone. ² Dual therapy for gonococcal infection now recommended for all patients with gonorrhea regardless of chlamydia test results.

Doxycycline not recommended during pregnancy, lactation, or for children <8 years of age.

Test-of-cure for gonorrhea should be performed with culture or with nucleic acid amplification (NAAT) if culture is not available. If NAAT positive, confirmatory culture recommended. If treatment failure suspected after *alternative* regimen use, treat using ceftriaxone 250 mg IM PLUS azithromycin 2 g orally once, and perform test-of-cure in one week. If treatment failure suspected after recommended regimen use, culture, perform antimicrobial susceptibility testing, notify and consult with the state health department, and/or consult with an infectious disease specialist, an STD/HIV Prevention Training Center (www.nnptc.org), or CDC.

If patient cannot tolerate high dose erythromycin schedules, change to lower dose for longer (see under pregnancy alternatives). Quinolones not recommended for use in patients <18 years of age, and are contraindicated in pregnant women.

Efficacy of treating neonatal chlamydial conjunctivitis and pneumonia is about 80%. A second course of therapy may be required. An association between oral erythromycin and infantile hypertrophic pyloric stenosis (IHPS) has been reported in infants aged less than 6 weeks treated with this drug. See complete CDC guidelines for more information. Infections with M. genitalium may respond better to azithromycin.

Recommended regimen of ceftriaxone and doxycycline is for epididymitis most likely caused by gonococcal and/or chlamydial infection. Given increase in quinolone resistant gonorrhea, alternative regimen of ofloxacin or levofloxacin is recommended only if epididymitis is not found to be caused by gonococci or if infection is more likely caused by enteric gram-negative

Consuming alcohol should be avoided during treatment and for 24 hours thereafter. Multiple studies and meta-analyses have not demonstrated an association between metronidazole use during pregnancy and teratogenic or mutagenic effects in newborns. In lactating women administered metronidazole, withholding breastfeeding during treatment and for 12–24 hours after last dose will reduce exposure of infant to metronidazole.

DISEASE	RECOMMENDED TREATMENT		ALTERNATIVES		
			(use only if recomme	nded regimens are contraindicated)	
CHANCROID	A 111 1.11 0.0				
ADULTS	Azithromycin ¹¹ 1 g orally once <u>OR</u> Ceftriaxone ¹¹ 250 mg IM once OR				
	Ciprofloxacin ⁶ 500 mg orally 2 times a da	v for 3 davs <i>OR</i>			
	Erythromycin base 500 mg orally 3 times	a day for 7 days			
BACTERIAL VAGINOSIS (BV)					
ADULT FEMALES	 Metronidazole¹⁰ 500 mg orally 2 times a day for 7 days <u>OR</u> 		◆ Tinidazole ¹² 2 g orally once daily for 3 days <u>OR</u>		
	Metronidazole gel 0.75%, 5 g intravag. once a day for 5		Tinidazole ¹² 1 g orally once daily for 5 days OR Clindamycin 300 mg orally 2 times a day for 7 days OR		
	days <u>OR</u> • Clindamycin cream 2%, 5 g intravag. at b	adtime for 7 days		orally 2 times a day for 7 days <u>OR</u> 100 mg intravag. at bedtime for 3 days	
PREGNANCY ¹³	Metronidazole ¹⁰ 500 mg orally 2 times a company of the second sec	lay for 7 days OR	• Clindamycin ovules	100 mg initavag. at bedtime for 3 days	
	Metronidazole ¹⁰ 250 mg orally 3 times a company of the state of	lay for 7 days OR			
	Clindamycin 300 mg orally 2 times a day for 7 days				
TRICHOMONIASIS					
ADULTS	Metronidazole ¹⁰ 2 g orally once <u>OR</u> Tinidazole ¹² 2 g orally once		Metronidazole ^{10,14} 500 mg orally 2 times a day for 7 days		
DEDICULOSIS DUDIC ¹⁵	Tinidazole ¹² 2 g orally once				
PEDICULOSIS PUBIS ¹⁵	D	and a district and	Matalleta - 0 50/ 14/5		
	 Permethrin 1% cream rinse applied to aff washed off after 10 minutes OR 	ected area and	Malathion 0.5% lotion applied for 8-12 hours and washed off <i>OR</i>		
	 Pyrethrins with piperonyl butoxide applied to affected area 		Ivermectin ¹⁶ 250 mcg/kg orally once, repeated in 2 weeks		
	and washed off after 10 minutes				
SCABIES					
	Permethrin 5% cream applied to all areas	of the body from	• Lindane ¹⁷ 1% 1 oz of lotion or 30 g of cream applied thinly		
	the neck down and washed off after 8-14 hours <u>OR</u> • Ivermectin ¹⁶ 200 mcg/kg orally, repeated in 2 weeks		to all areas of the bo after 8 hours	dy from neck down and washed off	
GENITAL HERPES SIMPLEX: See complete				onate	
ADULTS • Acyclovir 400 mg orally 3 times a day for 7-10 days <i>OR</i>					
FIRST CLINICAL EPISODE	Acyclovir 200 mg orally 5 times a day for	7-10 days <u>OR</u>			
	Famciclovir ¹⁸ 250 mg orally 3 times a day				
ADULTO	Valacyclovir 1 g orally 2 times a day for 7				
ADULTS EPISODIC THERAPY FOR RECURRENCE	 Acyclovir 800 mg orally 2 times a day for Acyclovir 400 mg orally 3 times a day for 				
El loobio melval i lockleookkende	Acyclovir 800 mg orally 3 times a day for 2 days <u>OR</u> Famciclovir ¹⁸ 125 mg orally 2 times a day for 5 days <u>OR</u> Famciclovir ¹⁸ 1000 mg orally 2 times a day for 1 day <u>OR</u>				
	Famciclovir ¹⁸ 1000 mg orally 2 times a da	y for 1 day <u>OR</u>			
	 Famciclovir¹⁸ 500 mg orally once, followed 2 times a day for 2 days OR 	d by 250 mg orally			
	Valacyclovir 500 mg orally 2 times a day	for 3 days OR			
	Valacyclovir 1 g orally once a day for 5 day	ays			
ADULTS	Acyclovir 400 mg orally 2 times a day OR	1			
SUPPRESSIVE THERAPY FOR RECURRENCE	Famciclovir ¹⁸ 250 mg orally 2 times a day	<u>OR</u>			
	 Valacyclovir 500 mg orally once a day <u>Of</u> Valacyclovir 1 g orally once a day 	<u>R</u>			
HIV INFECTION	Higher doses and/or longer therapy recomn	nended. See comple	te CDC quidelines		
GENITAL WARTS	The second and the second and the second	ionaca. coc compic	.c ob e garacimico.		
External or Per	ianal	Urethral	Vaginal	Anal	
		Meatus			
PROVIDER-ADMINISTERED		Cryotherapy	Cryotherapy with	Cryotherapy with liquid nitrogen	
Cryotherapy with liquid nitrogen or cryoprobe. Repeat	applications every 1-2 weeks if necessarv	with liquid	liquid nitrogen.	OR	
OR		nitrogen <u>OR</u>	Cryoprobe not	TCA or BCA 80%-90%. Apply	
Podophyllin resin 10%-25% ¹⁹ in a compound tincture of benzoin. Limit application to < 10 cm ²		Podophyllin	recommended (risk	small amount only to warts. Allow t	
and to < 0.5 ml. No open wounds or lesions should exist in the area of application. Allow to air dry. Wash off 1-4 hours after application. Repeat weekly if necessary <i>OR</i>		10%-25% ¹⁹ in a compound	of perforation and fistula formation) OR	dry. If excess amount applied, powder with talc, baking soda or	
Trichloroacetic acid (TCA) or bichloroacetic acid (B	tincture of	TCA or BCA 80%-	liquid soap. Repeat weekly if		
warts. Allow to dry. If excess amount applied, powder w	benzoin.	90%. Apply small	necessary <u>OR</u>		
weekly if necessary <u>OR</u>		Treatment area	amount only to	Surgical removal	
Surgical removal		must be dry before contact	warts. Allow to dry. If excess amount	Many persons with anal warts may	
PATIENT-APPLIED		with normal	applied, powder with	also have them in the rectal	
Podofilox 0.5% solution or gel. 19 Apply 2 times a day for 3 days, followed by 4 days of no		mucosa.	talc, baking soda or	mucosa. Inspect rectal mucosa by	
therapy, 4 cycles max. Total wart area should not exceed 10 cm ² and total volume applied daily not		Repeat weekly	liquid soap. Repeat weekly if necessary.	digital examination or anoscopy. Warts on the rectal mucosa should	
to exceed 0.5 ml. <u>OR</u> Imiguimod 5% cream. Apply once daily at bedtime 3 t	if necessary.	weekly if fieldssally.	be managed in consultation with a		
niquimod 5% cream. Apply once daily at bedtime 3 times a week for up to 16 weeks. Wash eatment area with soap and water 6-10 hours after application. <u>OR</u> Sinecatechins 15% ointment. 9,20 Applied 3 times a day for up to 16 weeks. Do not wash off.				specialist.	
◆ Sinecatechins 15% ointment. 19,20 Applied 3 times a	a day for up to 16 weeks. Do not wash off.				

◆ Sinecatechins 15% ointment.¹¹ ^{,20} Applied 3 times a day for up to 16 weeks. Do not wash off

11 Because data are limited concerning efficacy of ceftriaxone and azithromycin regimens in HIV-infected persons, these regimens should be used for such patients only if follow-up can be ensured. ¹² Consuming alcohol should be avoided during treatment and for 72 hours thereafter. Tinidazole safety during pregnancy not established. Interruption of breastfeeding is recommended

during treatment and for 3 days after last dose.

13 Oral therapy preferred for treatment of pregnant women with BV because of possibility of subclinical upper genital tract infection.

14 Regimen of 7 days of metronidazole may be more effective than single dose metronidazole in women coinfected with trichomoniasis and HIV.

15 Lindane no longer recommended because of toxicity. Pregnant or lactating women should be treated either with permethrin or pyrethrins with piperonyl butoxide.

16 Ivermectin not recommended for pregnant or lactating women, or children who weigh <15 kg.

legistration of the second present of lactating women, or children who weigh <15 kg.

17 Lindane no longer recommended as first line therapy because of toxicity. Lindane not to be used immediately after a bath, in persons with extensive dermatitis and women who are pregnant or lactating, or children aged < 2 years.

18 Famciclovir efficacy and safety not established in patients <18 years of age.

19 Imiquimod, sinecatechins, podophyllin, and podofilox should not be used during pregnancy.

20 Sinecatechins not recommended for HIV-infected persons, immunocompromised persons, or persons with clinical genital herpes.